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Docket No.: 52-026

ND-22-0736 10 CFR 52.99(c)(1)

U.S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle Electric Generating Plant Unit 4
ITAAC Closure Notification on Completion of ITAAC 2.5.02.02.i [Index Number 522]

Ladies and Gentlemen:

In accordance with 10 CFR 52.99(c)(1), the purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of Vogtle Electric Generating Plant (VEGP) Unit 4 Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) Item 2.5.02.02.i [Index Number 522] to demonstrate that the Protection and Safety Monitoring System (PMS) equipment identified as seismic Category I or Class 1E in the Combined License (COL) Appendix C, Table 2.5.2-1 is designed and constructed in accordance with applicable requirements.

The closure process for this ITAAC is based on the guidance described in NEI 08-01, "Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52," which was endorsed by the NRC in Regulatory Guide 1.215.

This letter contains no new NRC regulatory commitments. Southern Nuclear Operating Company (SNC) requests NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact Kelli Roberts at 706-848-6991.

Respectfully submitted,

Jamie M Coleman

Regulatory Affairs Director Vogtle 3 & 4

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Enclosure: Vogtle Electric Generating Plant (VEGP) Unit 4

Completion of ITAAC 2.5.02.02.i [Index Number 522]

JMC/JRB/sfr

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cc:

Regional Administrator, Region II Director, Office of Nuclear Reactor Regulation (NRR)

Director, Vogtle Project Office NRR Senior Resident Inspector - Vogtle 3 & 4 U.S. Nuclear Regulatory Commission ND-22-0736 Enclosure Page 1 of 12

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Vogtle Electric Generating Plant (VEGP) Unit 4 Completion of ITAAC 2.5.02.02.i [Index Number 522] U.S. Nuclear Regulatory Commission ND-22-0736 Enclosure Page 2 of 12

ITAAC Statement

Design Commitment

- 2. The seismic Category I equipment, identified in Table 2.5.2-1, can withstand seismic design basis loads without loss of safety function.
- 3. The Class 1E equipment, identified in Table 2.5.2-1, has electrical surge withstand capability (SWC), and can withstand the electromagnetic interference (EMI), radio frequency interference (RFI), and electrostatic discharge (ESD) conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.
- 4. The Class 1E equipment, identified in Table 2.5.2-1, can withstand the room ambient temperature, humidity, pressure, and mechanical vibration conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

Inspections, Tests, Analyses

- i) Inspection will be performed to verify that the seismic Category I equipment identified in Table 2.5.2-1 is located on the Nuclear Island.
- ii) Type tests, analyses, or a combination of type tests and analyses of seismic Category I equipment will be performed.
- iii) Inspection will be performed for the existence of a report verifying that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions.

Type tests, analyses, or a combination of type tests and analyses will be performed on the equipment.

Type tests, analyses, or a combination of type tests and analyses will be performed on the Class 1E equipment identified in Table 2.5.2-1.

Acceptance Criteria

- i) The seismic Category I equipment identified in Table 2.5.2-1 is located on the Nuclear Island.
- ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function.
- iii) A report exists and concludes that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions.

A report exists and concludes that the Class 1E equipment identified in Table 2.5.2-1 can withstand the SWC, EMI, RFI, and ESD conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

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A report exists and concludes that the Class 1E equipment identified in Table 2.5.2-1 can withstand the room ambient temperature, humidity, pressure, and mechanical vibration conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

ITAAC Determination Basis

This ITAAC requires that inspections, tests, and analyses be performed and documented to ensure the Protection and Safety Monitoring System (PMS) equipment identified as seismic Category I or Class 1E in the Combined License (COL) Appendix C, Table 2.5.2-1 (the Table) is designed and constructed in accordance with applicable requirements.

i) The seismic Category I equipment identified in Table 2.5.2-1 is located on the Nuclear Island.

To assure that seismic Category I equipment can withstand seismic design basis loads without loss of safety function, all the equipment in the Table is designed to be located on the seismic Category I Nuclear Island. In accordance with Equipment Qualification (EQ) Walkdown ITAAC Guideline and the EQ ITAAC As-Built Installation Documentation Guideline (References 1 and 2), an inspection was conducted of the PMS to confirm the satisfactory installation of the seismically qualified equipment. The inspection includes verification of equipment make/model/serial number and verification of equipment location (Building, Elevation, Room). The EQ As-Built Reconciliation Report (EQRR) (Reference 3) identified in Attachment A document the results of the inspection and conclude that the seismic Category I equipment is located on the Nuclear Island.

ii) A report exists and concludes that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function.

Seismic Category I equipment in the Table requires type tests and/or analyses to demonstrate structural integrity and operability. Safety-related (Class 1E) electrical equipment in the Table was seismically qualified by type testing combined with analysis in accordance with Institute of Electrical and Electronics Engineers (IEEE) Standard 344-1987 (Reference 4). The specific qualification method (i.e., type testing, analysis, or combination) used for each piece of equipment in the Table is identified in Attachment A. Additional information about the methods used to qualify AP1000 safety-related equipment is provided in the Updated Final Safety Analysis Report (UFSAR) Appendix 3D (Reference 5). The EQ Reports (Reference 6) identified in Attachment A contain applicable test reports and associated documentation and conclude that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function.

iii) A report exists and concludes that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions.

An inspection (References 1 & 2) was conducted to confirm the satisfactory installation of the seismically qualified equipment in the Table. The inspection verified the equipment make/model/serial number, as-designed equipment mounting orientation, anchorage and clearances, and electrical and other interfaces. The documentation of installed configuration of seismically qualified equipment includes photographs and/or sketches/drawings of equipment/mounting/interfaces.

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As part of the seismic qualification program, consideration is given to the definition of the clearances needed around the equipment mounted in the plant to permit the equipment to move during a postulated seismic event without causing impact between adjacent pieces of safety-related equipment. When required, seismic testing by measuring the maximum dynamic relative displacement of the top and bottom of the equipment was performed. EQ Reports (Reference 6) identify the equipment mounting employed for qualification and establish interface requirements for assuring that subsequent in-plant installation does not degrade the established qualification. Interface requirements are defined based on the test configuration and other design requirements.

Attachment A identifies the EQRR (Reference 3) completed to verify that the as-built seismic Category I equipment listed in the Table, including anchorage, are seismically bounded by the tested or analyzed conditions, IEEE Standard 344-1987 (Reference 4) and NRC Regulatory Guide (RG) 1.100 (Reference 7).

A report exists and concludes that the Class 1E equipment identified in Table 2.5.2-1 can withstand the SWC, EMI, RFI, and ESD conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

The Class 1E equipment in the Table was qualified by a combination of type testing and analysis in accordance with RG 1.180 (Reference 8) and industry standards. The specific qualification method (i.e., type testing, analysis, or combination) used for each piece of equipment in the Table is identified in Attachment A. The baseline Military Standard ("MIL-STD") program is used in its entirety for emissions testing as described in Attachment B, and shows the Electromagnetic Compatibility (EMC) type test and category (SWC, EMI, RFI or ESD), the test standard, and the application. The alternate International Electrotechnical Commission (IEC) program is used in its entirety for susceptibility testing as described in similar fashion in Attachment C. The testing described in the attachments is a complete set for this ITAAC in accordance with RG 1.180 and the ESD test requirement, and compliant results of these tests combined with the location analysis indicate that the ITAAC acceptance criteria was met.

The results of the tests and analysis are documented in the EQ Reports (Reference 6) identified in Attachment A and conclude that the Class 1E equipment identified in the Table has SWC and can withstand the EMI, RFI, and ESD conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

A report exists and concludes that the Class 1E equipment identified in Table 2.5.2-1 can withstand the room ambient temperature, humidity, pressure, and mechanical vibration conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

The Class IE equipment identified in the Table was qualified by a combination of type testing and analysis in accordance with IEEE Standard 323-1974 (Reference 9) and RG 1.89 (Reference 10) to meet the requirements of 10 CFR 50.49. This demonstrates that the equipment can withstand the room ambient temperature, humidity, pressure, and mechanical vibration conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function. Additional information about the methods used to qualify AP1000 safety-related equipment is provided in UFSAR Appendix 3D (Reference 5).

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EQ Reports (Reference 6) identified in Attachment A contain applicable test reports and associated documentation and conclude the equipment identified in the Table can withstand the room ambient temperature, humidity, pressure, and mechanical vibration conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

Together, these reports (References 3 and 6) provide evidence that the ITAAC Acceptance Criteria requirements are met:

- The seismic Category I equipment identified in Table 2.5.2-1 is located on the Nuclear Island;
- A report exists and concludes that the seismic Category I equipment can withstand seismic design basis loads without loss of safety function;
- A report exists and concludes that the as-built equipment including anchorage is seismically bounded by the tested or analyzed conditions;
- A report exists and concludes that the Class 1E equipment identified in Table 2.5.2-1
 can withstand the SWC, EMI, RFI, and ESD conditions that would exist before, during,
 and following a design basis accident without loss of safety function for the time required
 to perform the safety function; and
- A report exists and concludes that the Class 1E equipment identified in Table 2.5.2-1
 can withstand the room ambient temperature, humidity, pressure, and mechanical
 vibration conditions that would exist before, during, and following a design basis accident
 without loss of safety function for the time required to perform the safety function.

References 3 and 6 are available for NRC inspection as part of the Unit 4 ITAAC 2.5.02.02.i Completion Package (Reference 11).

ITAAC Finding Review

In accordance with plant procedures for ITAAC completion, Southern Nuclear Operating Company (SNC) performed a review of all ITAAC findings pertaining to the subject ITAAC and associated corrective actions. This finding review, which included now-consolidated ITAAC Indexes 523, 524, 525, and 526, found the following Notices of Nonconformance (NON) associated with this ITAAC:

- 1) 99900404/2015-204-02 (closed ML18152B785)
- 2) 99900404/2015-204-03 (closed ML18152B785)

The corrective actions for these findings have been completed and the findings are closed. The ITAAC completion review is documented in the ITAAC Completion Package for ITAAC 2.5.02.02.i (Reference 11) and is available for NRC review.

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ITAAC Completion Statement

Based on the above information, SNC hereby notifies the NRC that ITAAC 2.5.02.02.i was performed for VEGP Unit 4 and that the prescribed acceptance criteria are met.

Systems, structures, and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

References (available for NRC inspection)

- 1. ND-RA-001-014, EQ ITAAC As-built Walkdown Guideline, Version 3.1
- 2. ND-RA-001-016, "EQ ITAAC As-built Installation Documentation Guideline", Version 1.0
- 3. EQ As-Built Reconciliation Report (EQRR) as identified in Attachment A for Unit 4
- 4. IEEE Standard 344-1987, "IEEE Recommended Practices for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations"
- 5. Vogtle 3&4 Updated Final Safety Analysis Report Appendix 3D, "Methodology for Qualifying AP1000 Safety-Related Electrical and Mechanical Equipment", Revision 11.1
- 6. Equipment Qualification (EQ) Reports as identified in Attachment A
- 7. Regulatory Guide 1.100, Rev. 2, "Seismic Qualification of Electric and Mechanical Equipment for Nuclear Power Plants"
- 8. Regulatory Guide 1.180, Rev. 1, "Guidelines for Evaluating Electromagnetic and Radio-Frequency Interference in Safety-Related Instrumentation and Control Systems"
- 9. IEEE Standard 323-1974, "IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations"
- 10. Regulatory Guide 1.89, Rev. 1, "Environmental Qualification of Certain Electric Equipment Important to Safety for Nuclear Power Plants"
- 11. 2.5.02.02.i-U4-CP-Rev0, Completion Package for Unit 4 ITAAC 2.5.02.02.i [Index Number 522]

Attachment A

System: Protection and Safety Monitoring System (PMS)

Equipment Name+	Seismic Cat. I ⁺	Class 1E ⁺	Qual. For Harsh Envir.+	Type of Qual.	EQ Reports	As-Built EQRR
PMS Cabinets, Division A	Yes	Yes	No	Type Test & Analysis	SV4-PMS-VBR- 002 SV4-PMS-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
PMS Cabinets, Division B	Yes	Yes	No	Type Test & Analysis	SV4-PMS-VBR- 002 SV4-PMS-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
PMS Cabinets, Division C	Yes	Yes	No	Type Test & Analysis	SV4-PMS-VBR- 002 SV4-PMS-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
PMS Cabinets, Division D	Yes	Yes	No	Type Test & Analysis	SV4-PMS-VBR- 002 SV4-PMS-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
Reactor Trip Switchgear, Division A	Yes	Yes	No	Type Test & Analysis	SV4-JY50-VBR- 002 SV4-JY50-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
Reactor Trip Switchgear, Division B	Yes	Yes	No	Type Test & Analysis	SV4-JY50-VBR- 002 SV4-JY50-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
Reactor Trip Switchgear, Division C	Yes	Yes	No	Type Test & Analysis	SV4-JY50-VBR- 002 SV4-JY50-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
Reactor Trip Switchgear, Division D	Yes	Yes	No	Type Test & Analysis	SV4-JY50-VBR- 002 SV4-JY50-VBR- 003	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
MCR/RSW Transfer Panels	Yes	Yes	No	Type Test & Analysis	SV4-JW03-VBR- 001 SV4-JW03-VBR- 002	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
MCR Safety-related Display, Division A	Yes	Yes	No	Type Test & Analysis	SV4-OCS-VBR-	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
MCR Safety-related Display, Division B	Yes	Yes	No	Type Test & Analysis	SV4-OCS-VBR- 006 SV4-OCS-VBR- 008	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0

Equipment Name+	Seismic Cat. I ⁺	Class 1E+	Qual. For Harsh Envir.*	Type of Qual.	EQ Reports	As-Built EQRR
MCR Safety-related Display, Division C	Yes	Yes	No	Type Test & Analysis	SV4-OCS-VBR- 006 SV4-OCS-VBR- 008	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
MCR Safety-related Display, Division D	Yes	Yes	No	Type Test & Analysis	SV4-OCS-VBR- 006 SV4-OCS-VBR- 008	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0
MCR Safety-related Controls	Yes	Yes	No	Type Test & Analysis	SV4-OCS-VBR- 006 SV4-OCS-VBR- 008	2.5.02.02.i-U4- EQRR-PCD001 Rev. 0

Notes:
+ Excerpt from COL Appendix C Table 2.5.2-1

Attachment B

PMS Applicable SWC Test Standards, Baseline (MIL-STD) Emissions Testing Program

EMC Type Test	Test Standard	Application	
Conducted Emissions, Low Frequency (EMI/ RFI)	MIL-STD-461E (CE101) "Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment," U.S. Department of Defense, August 1999.	Reactor Trip Switchgear Power Leads (Note 1)	
		PMS Cabinet Power Leads	
Conducted Emissions, High Frequency (EMI/ RFI)	MIL-STD-461E (CE102), "Requirements for the Control of Electromagnetic Interference Characteristics of	Reactor Trip Switchgear Power Leads	
	Subsystems and Equipment," U.S. Department of Defense, August 1999.	Main Control Room (MCR) Safety-related (SR) Display & Control Power Leads	
Radiated Emissions, Magnetic Field	MIL-STD-461E (RE101), "Requirements for the Control of Electromagnetic Interference Characteristics of	PMS Cabinet Reactor Trip Switchgear	
(EMI/ RFI)	Subsystems and Equipment," U.S. Department of Defense, August 1999.	MCR SR Display & Control	
Radiated Emissions, Electric Field (EMI/ RFI)	MIL-STD-461E (RE102), "Requirements for the Control of Electromagnetic Interference Characteristics of	PMS Cabinet Reactor Trip Switchgear	
	Subsystems and Equipment," U.S. Department of Defense, August 1999.	MCR SR Display & Control	

Attachment C

PMS Applicable SWC Test Standards, Alternate (IEC) Susceptibility Testing Program

EMC Type Test	Test Standard	Application	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		PMS Cabinet Power & Signal Leads	
Conducted Susceptibility, Low Frequency, (EMI/ RFI)	IEC 61000-4-16, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 16: Test for Immunity to Conducted, Common Mode Disturbances in the Frequency Range of 0 Hz to 150 kHz," 1998.	Reactor Trip Switchgear Power & Signal Leads Main Control Room/Remote Shutdown Workstation (MCR/RSW) Transfer Panel Signal Leads MCR SR Display & Control Power &	
		Signal Leads	
Conducted Susceptibility, Low Frequency, (EMI/ RFI)	IEC 61000-4-13, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 13: Harmonics and Interharmonics Including Mains Signaling at AC Power Port, Low Frequency Immunity Tests," 2002.	PMS Cabinet Power Leads MCR SR Display & Control Power Leads	
		PMS Cabinet Power & Signal Leads	
Conducted Susceptibility, High Frequency (EMI/ RFI)	IEC 61000-4-6, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 6: Immunity to Conducted Disturbances, Induced by Radio-Frequency Fields," 1996.	Reactor Trip Switchgear Power & Signal Leads MCR/RSW Transfer Panel Signal Leads	
		MCR SR Display & Control Power & Signal Leads	
Radiated Susceptibility, Magnetic Field, (EMI/ RFI)	IEC 61000-4-8, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 8: Power Frequency Magnetic Field Immunity Test," 1993. (Note 2)	PMS Cabinet Reactor Trip Switchgear MCR SR Display & Control	
Radiated Susceptibility, Magnetic Field, (EMI/ RFI)	IEC 61000-4-9, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 9: Power Frequency Magnetic Field Immunity Test," 1993.	PMS Cabinet Reactor Trip Switchgear MCR SR Display & Control	
Radiated Susceptibility, Magnetic Field, (EMI/ RFI)	IEC 61000-4-10, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 10: Damped Oscillatory Magnetic Field Immunity Test," 1993.	PMS Cabinet Reactor Trip Switchgear MCR SR Display & Control	

EMC Type Test	Test Standard	Application
	IEC 61000-4-3, "Electromagnetic	PMS Cabinet
Radiated Susceptibility,	Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 3:	Reactor Trip Switchgear
Electrical Field, (EMI/ RFI)	Radiated, Radio-Frequency, Electromagnetic Field Immunity Test," 1995.	MCR/RSW Transfer Panel
	1995.	MCR SR Display & Control
Radiated Susceptibility,	MIL-STD-461E (RS103), "Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment," U.S. Department of Defense, August 1999.	PMS Cabinet Reactor Trip Switchgear
Electrical Field, (EMI/ RFI) (Note 2)		MCR/RSW Transfer Panel
,		MCR SR Display & Control
		PMS Cabinet Power & Signal Leads
Electrical Fast Transient (SWC)	IEC 61000-4-4, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 4: Electrical Fast Transient/Burst Immunity Test," 1995.	Reactor Trip Switchgear Power & Signal Leads
		MCR/RSW Transfer Panel Signal Leads
		MCR SR Display & Control Power & Signal Leads
		PMS Cabinet Power & Signal Leads
Surge, Combination Wave (SWC)	IEC 61000-4-5, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 5: Surge Immunity Test," 1995 & 2005.	Reactor Trip Switchgear Power & Signal Leads
		MCR/RSW Transfer Panel Signal Leads
		MCR SR Display & Control Power & Signal Leads
		PMS Cabinet Power & Signal Leads
Surge, Ring Wave (EMI/ RFI)	IEC 61000-4-12, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 12: Oscillatory Waves Immunity Test," 1995 & 2006.	Reactor Trip Switchgear Power & Signal Leads
		MCR/RSW Transfer Panel Signal Leads
		MCR SR Display & Control Power & Signal Leads

EMC Type Test	Test Standard	Application
Electrostatic Discharge Immunity (ESD) (Note 3)	IEC 61000-4-2, "Electromagnetic Compatibility (EMC), Part 4: Testing and Measurement Techniques, Section 2: Electrostatic Discharge Immunity Test," 2008.	PMS Cabinet Reactor Trip Switchgear MCR/RSW Transfer Panel MCR SR Display & Control

Notes:

- 1. Voltage Total Harmonic Distortion (VTHD) tests were performed to support exemption of the following equipment from CE101 tests under Regulatory Guide 1.180 Position 3.1.
 - a. PMS Cabinet Power Leads
 - b. MCR SR Display & Control Power Leads
- 2. MIL-STD-461E RS103 (Radiated susceptibility, electric field) test is used to extend the alternative susceptibility test range of the radiated electrical fields susceptibility above 1 GHz, as indicated in RG 1.180 Position 6.
- 3. Testing for electrostatic discharge (ESD) is performed consistent with the RG 1.180 reference to IEC 61000-4-2, Electromagnetic Compatibility (EMC) Part 4-2: Testing and Measurement Techniques Electrostatic Discharge Immunity Test.